

**Notice of Allowability**

Application No.

10/084,580

Examiner

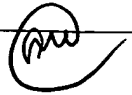
Freshteh N. Aghdam

Applicant(s)

TRIPATHI ET AL.

Art Unit

2631

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/26/2005.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 11/8/2005.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

Figures 3 and 4 have been changed as marked in red.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

### ***Allowable Subject Matter***

Claims 1-20 are allowed. The following is an examiner's statement of reasons for allowance:

The instant application disclosed prior art teaches an input delay line including delay elements, the input delay line configured to receive an input signal and provide intermediate signals, wherein intermediate signals are shifted representations of the input signal; and a first output delay line including a delay element, the first output delay line configured to receive a first intermediate signal and provide a first gradient element for computing a first coefficient multiplier. The prior art of record fails to teach a second output delay line configured to receive intermediate signals and use the first coefficient multiplier to combine intermediate signals into an equalized output signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Andre (US 5,428,605) see figures 2 and 3.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Freshteh N. Aghdam whose telephone number is (571) 272-6037. The examiner can normally be reached on Monday through Friday 9:00-5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Freshteh Aghdam  
November 8, 2005


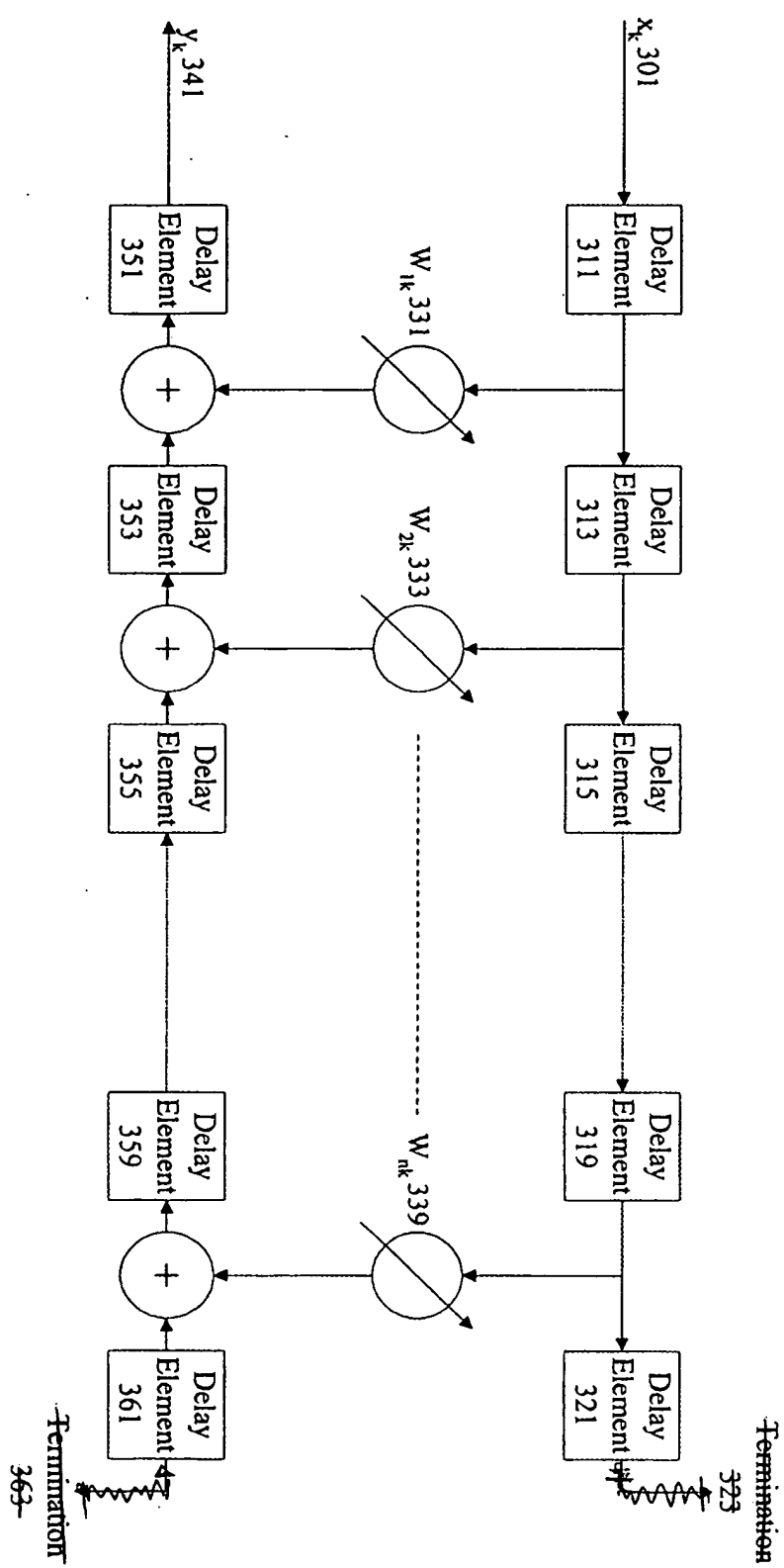
  
**KEVIN BURD**  
**PRIMARY EXAMINER**

Figure 3  
(Prior Art)



Termination  
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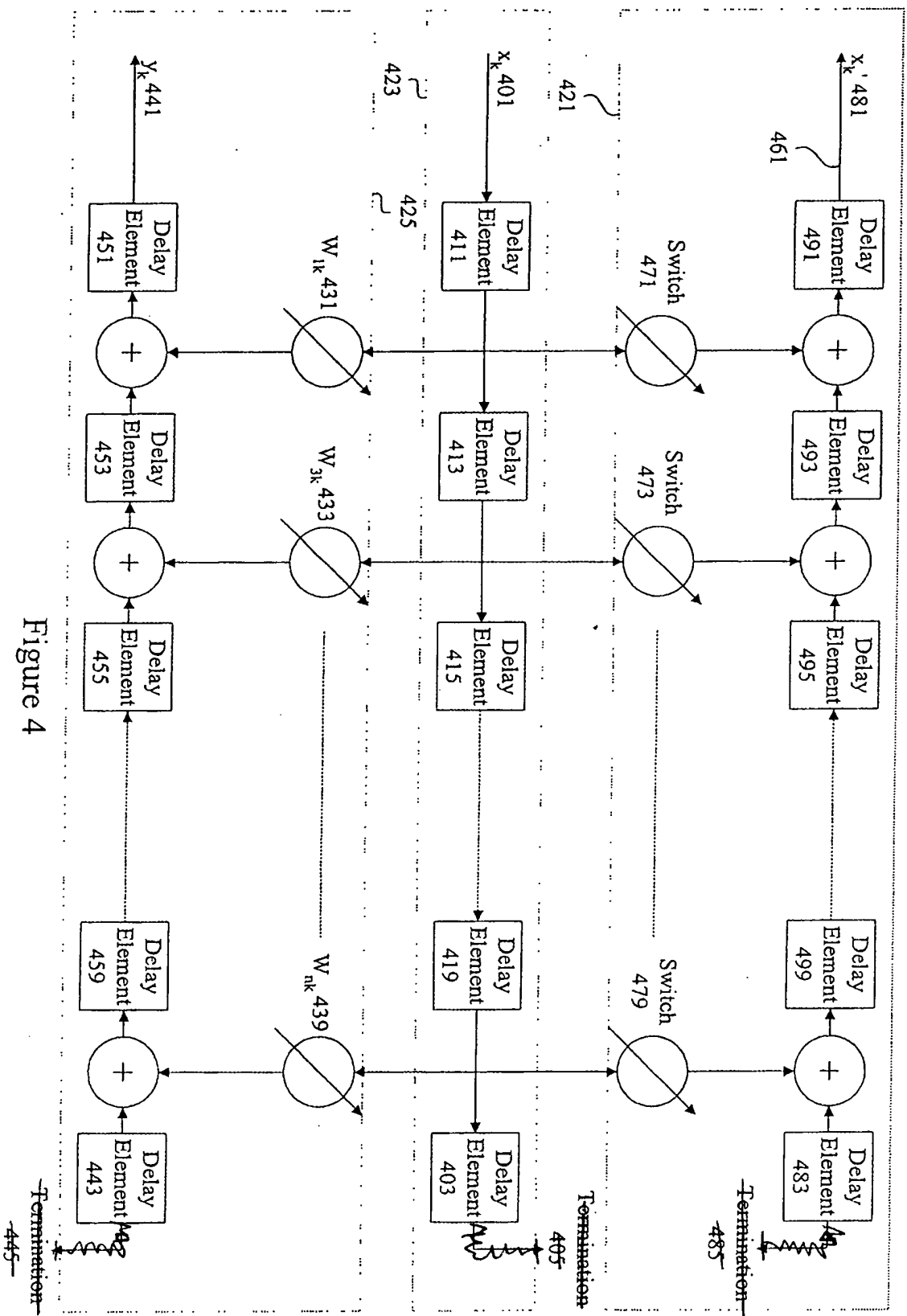


Figure 4

Figure 1

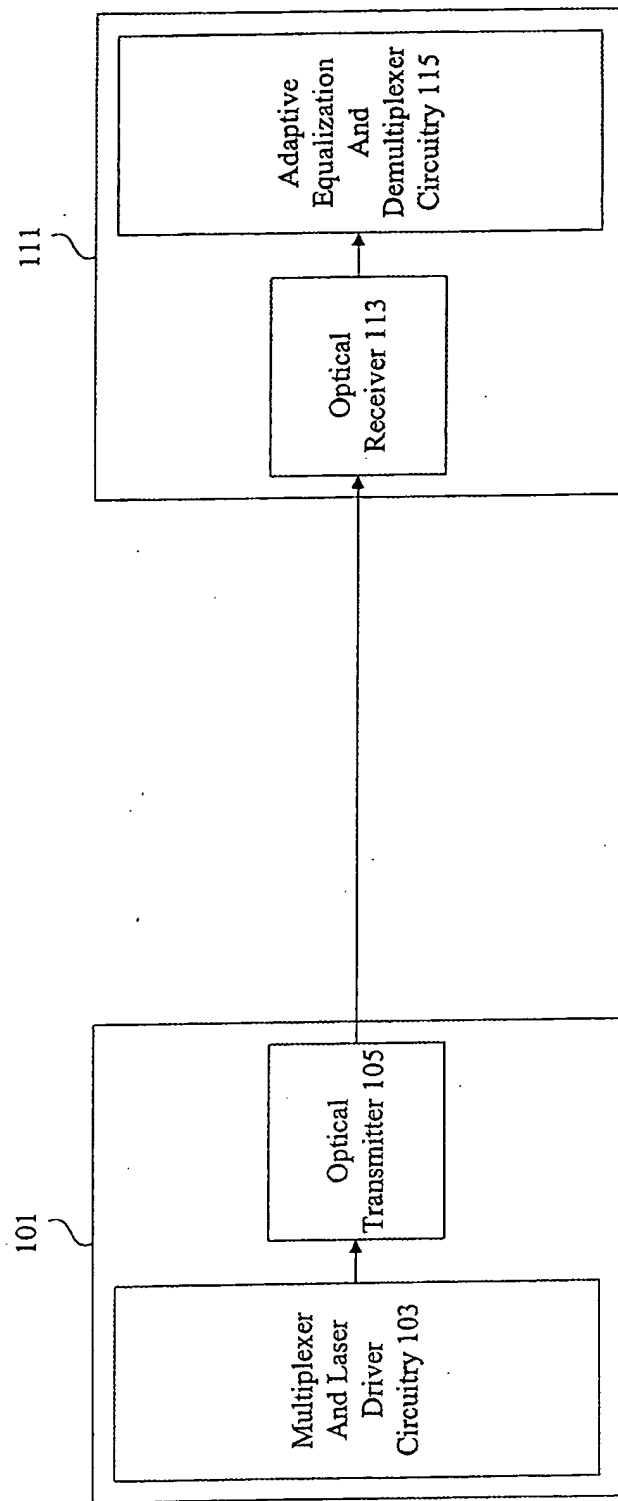




Figure 2  
(Prior Art)

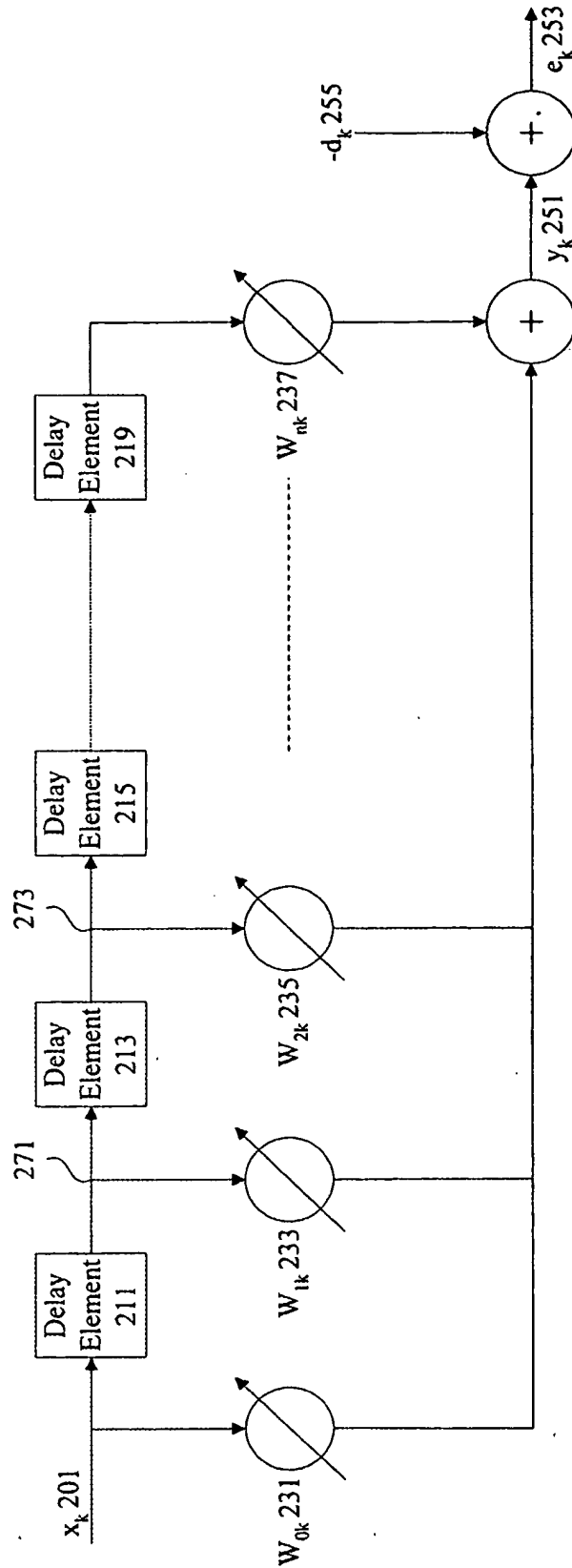
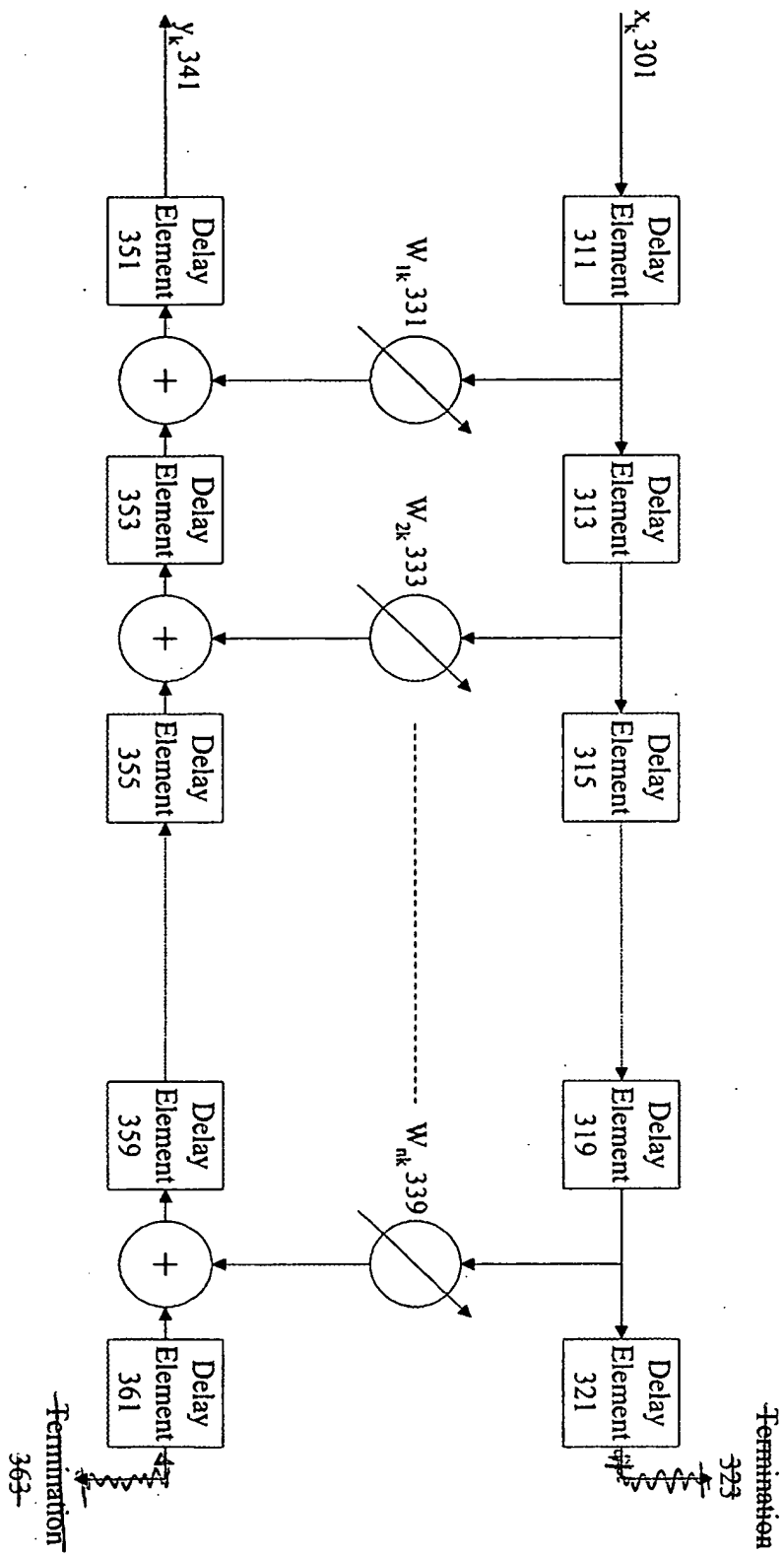




Figure 3  
(Prior Art)



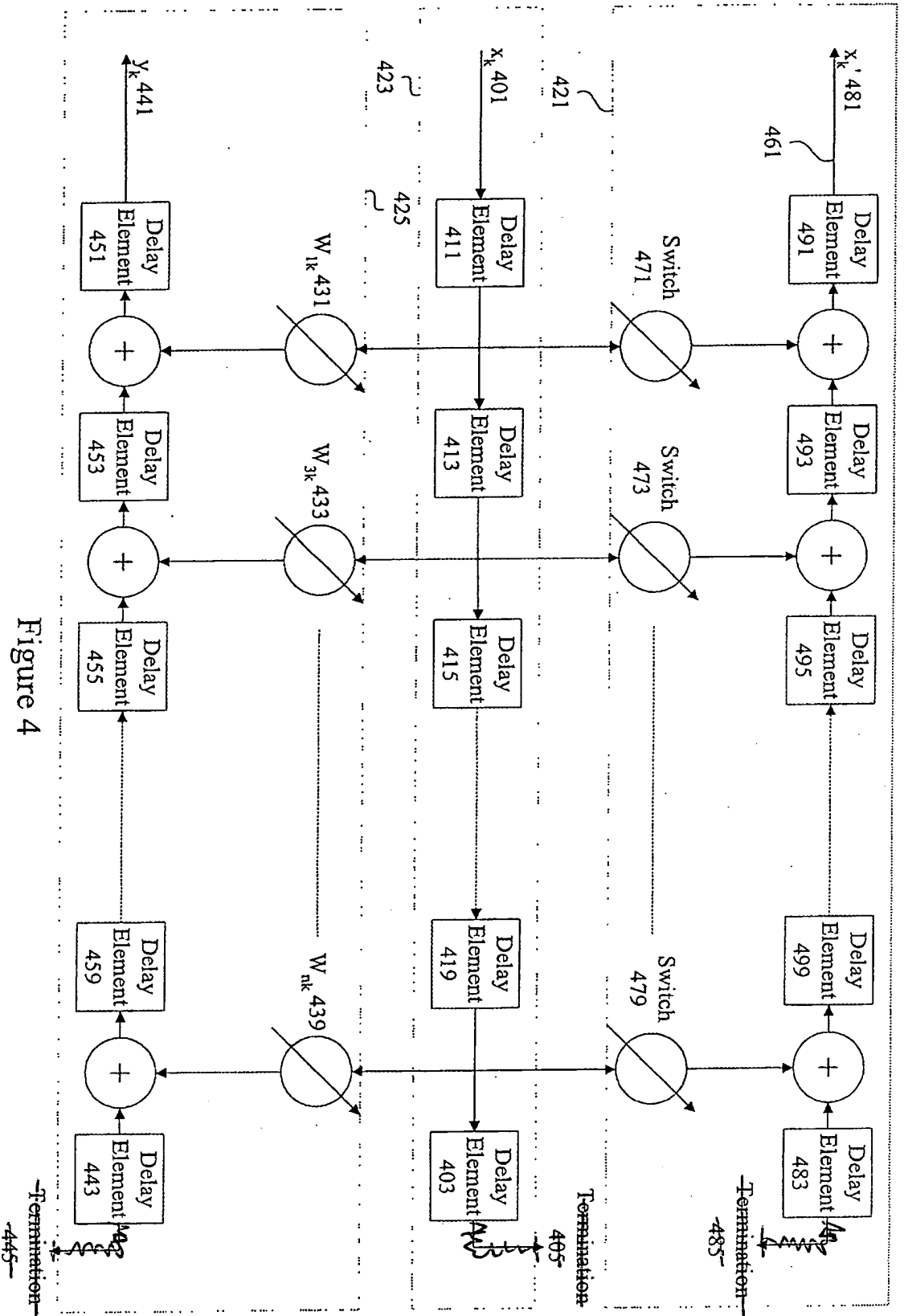


Figure 4

Figure 5

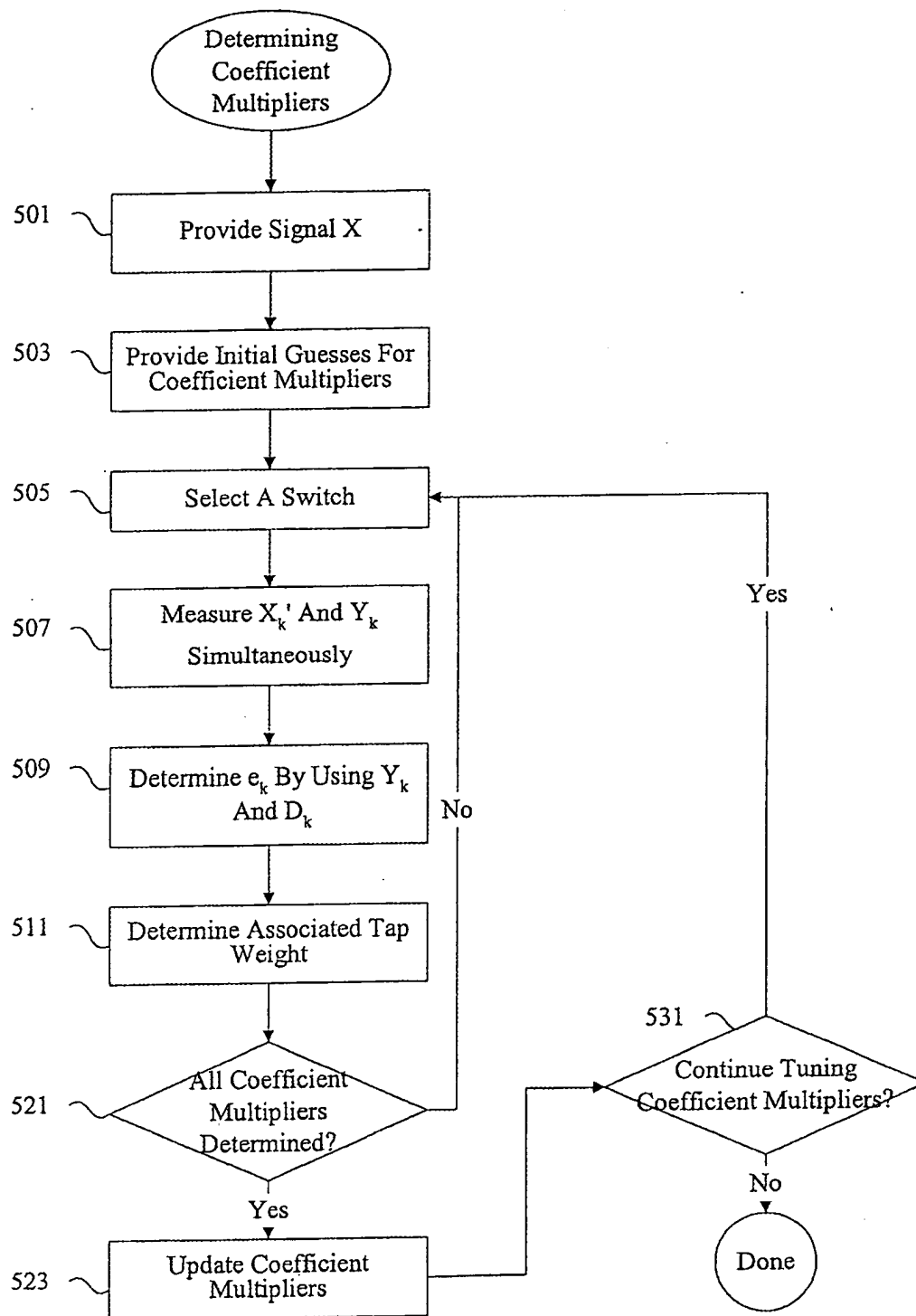


Figure 6

Types Of Transceiver	Optical Transmitter			Optical Mux	Optical Receiver			
	Interface/Retimer/Serialize	LD Driver	LDs		Detect + TIA	Post Amp	Adaptive Equalize/Deserialize	Interface/Retimer
601 WWDm, Non-Equalized	XAU/Yes/ No	4 @ 3.125 GBd	4 @ 3.125 GBd	Yes	4 @ 3.125 GBd	4 @ 3.125 GBd	No/No	XAU/Yes
603 Serial Standard, Non-Equalized	XAU/ or XSBI/No/Yes	10 GHz	10 GHz	No	10 GHz	10 GHz	No/Yes	XAU/ or XSBI/No
605 Tripath, Standard Serial Tx Optics	XAU/ or XSBI/No/Yes	10 GHz	10 GHz	No	2.5 GHz	2.5 GHz	Yes/Yes	XAU/ or XSBI/No
607 Tripath With 1/4 Rate Tx & Rx Optics	XAU/ or XSBI/No/Yes	2.5 GHz	2.5 GHz	No	2.5 GHz	2.5 GHz	Yes/Yes	XAU/ or XSBI/No